



WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	ATTENTION

Area

[W52680]

Machine Id

JOHN DEERE 245G 1FF245GXLJF800636

Component

Diesel Engine

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0224544	JR0106307	JRMC454781
Sample Date		Client Info		08 Jul 2024	17 Nov 2021	09 Nov 2018
Machine Age	hrs	Client Info		5657	3984	548
Oil Age	hrs	Client Info		0	0	548
Filter Age	hrs	Client Info		0	0	548
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	12	6	21
Chromium	ppm	ASTM D5185m	>11	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	7	4	3
Lead	ppm	ASTM D5185m	>26	<1	<1	2
Copper	ppm	ASTM D5185m	>26	3	2	18
Tin	ppm	ASTM D5185m	>4	0	<1	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

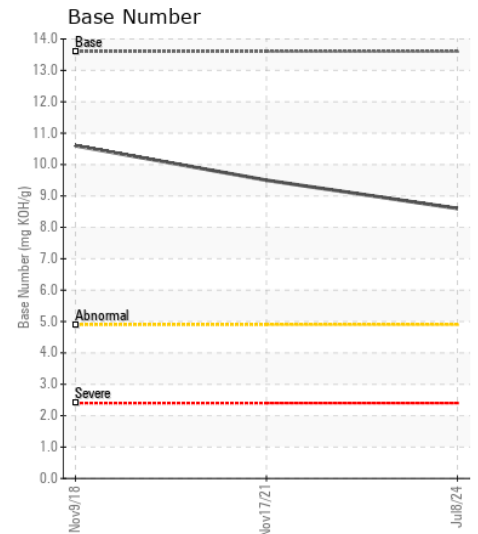
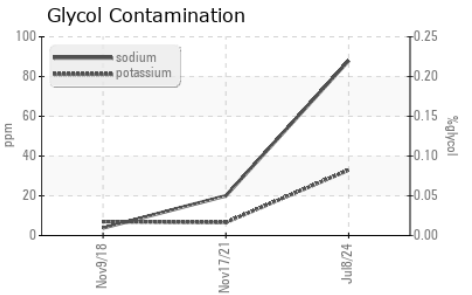
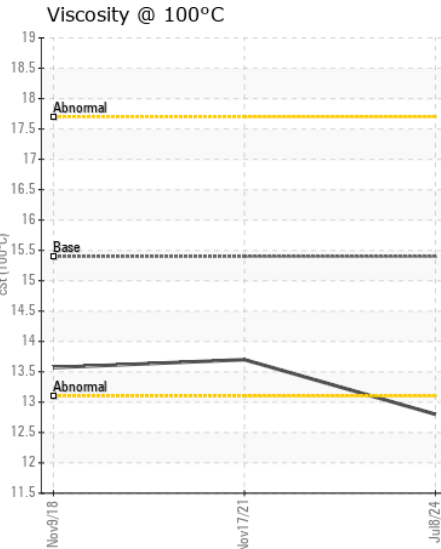
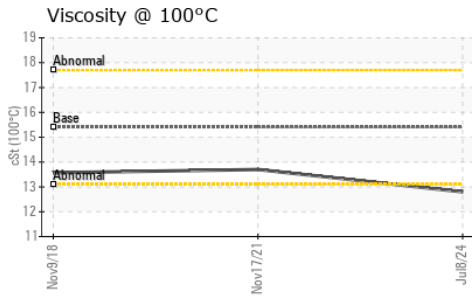
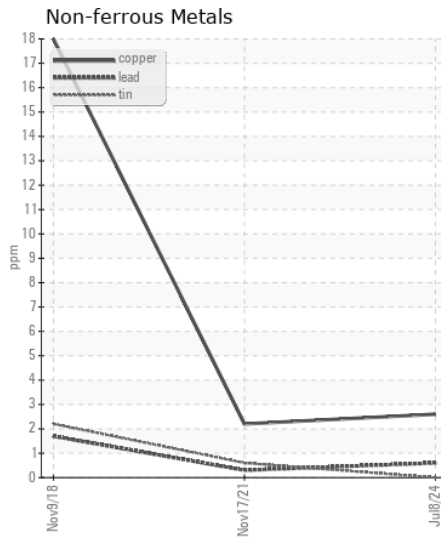
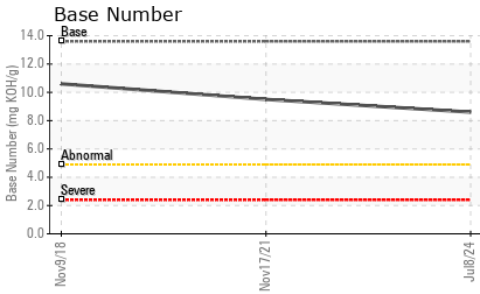
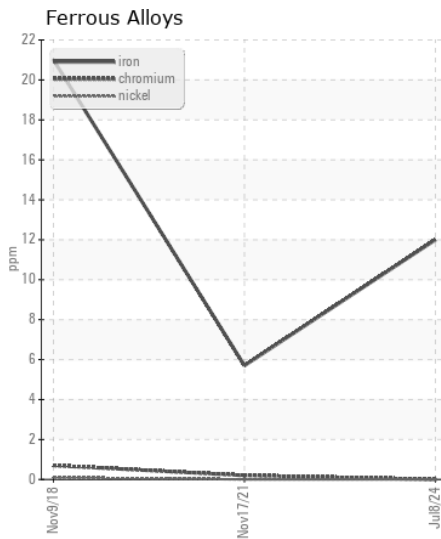
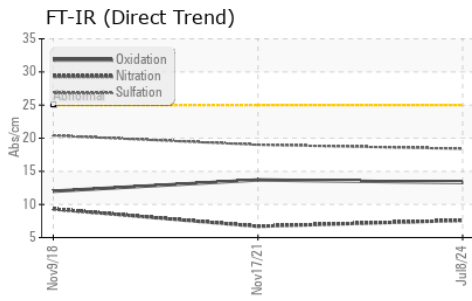
Sodium and/or potassium levels are high. Test for glycol is negative.

Silicon	ppm	ASTM D5185m	>22	5	3	23
Potassium	ppm	ASTM D5185m	>20	33	7	7
Fuel	%	ASTM D3524	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.9
Nitration	Abs/cm	*ASTM D7624	>20	7.6	6.7	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	19	20.4
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>31	88	20	4
Boron	ppm	ASTM D5185m		12	33	160
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		70	57	<1
Manganese	ppm	ASTM D5185m		<1	<1	4
Magnesium	ppm	ASTM D5185m		827	683	25
Calcium	ppm	ASTM D5185m		1414	1601	2303
Phosphorus	ppm	ASTM D5185m		1039	1075	966
Zinc	ppm	ASTM D5185m		1227	1173	1177
Sulfur	ppm	ASTM D5185m		3734	3250	2811
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	13.7	12
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.6	9.5	10.6
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	13.7	13.57



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0224544 **Received** : 09 Jul 2024
Lab Number : 06231283 **Tested** : 11 Jul 2024
Unique Number : 11114776 **Diagnosed** : 11 Jul 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: FuelDilution, Glycol, TBN)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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